

## ABSTRACT OF THE DISCLOSURE

An arrayed waveguide grating optical multiplexer/demultiplexer includes first and second slab waveguides. At least one of the first and a second slab waveguides includes first and second portions which are separated along an intersecting face intersecting an optical path in the first or second slab waveguides. A slider is fixed at a temperature shifted from a predetermined temperature to compensate a center wavelength difference between a target center wavelength of optical transmission of the arrayed waveguide grating optical multiplexer/demultiplexer at the predetermined temperature and the measured center wavelength of optical transmission of the arrayed waveguide grating optical multiplexer/demultiplexer at the predetermined temperature. The slider is configured to cause a relative motion between the first and second portions along the intersecting face according to a temperature change.

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